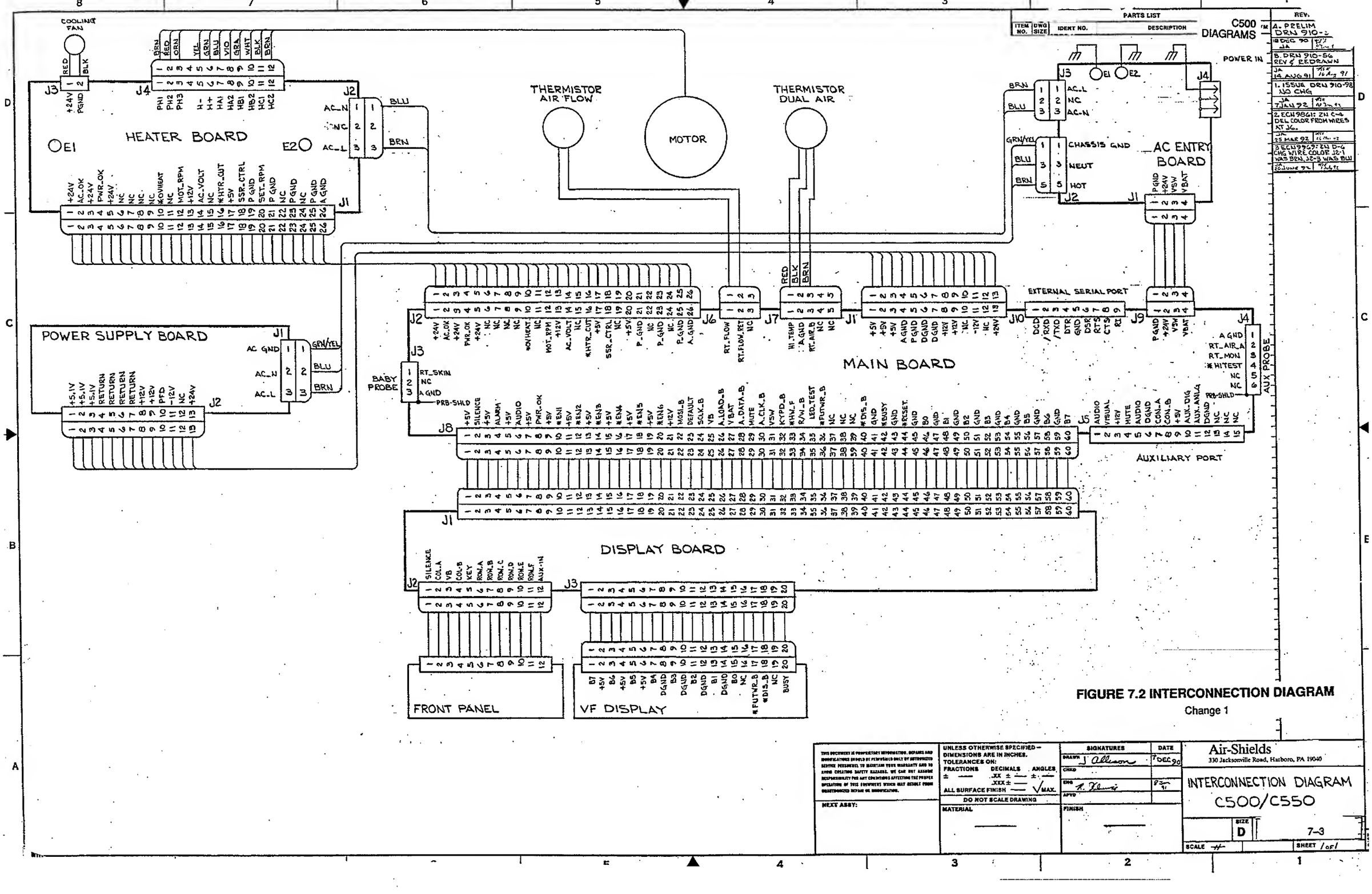

COOLING FAN
RED
BLK
J3
+24V
PGND
J4
BRN RED ORN YEL GRN BLU VIO GRA WHT BLK BRN
PH1 PH2 PH3 H- H+ HA1 HA2 HB1 HB2 HC1 HC2
HEATER BOARD
E1
E2
J2
AC_N
NC
AC_L
BLU
BRN
THERMISTOR AIR FLOW
MOTOR
THERMISTOR DUAL AIR
J1
+24V AC_OK +24V PWR_OK +24V NC NC NC *OVHEAT NC MOT_RPM +12V AC_VOLT NC *HTR_CUT +5V SSR_CTRL +5V *HTR_CUT +5V SSR_CTRL NC P_GND NC P_GND NC P_GND A_GND
POWER SUPPLY BOARD
J1
AC GND
AC_N
AC_L
GRN/YEL
BLU
BRN
+5.1V +5.1V +5.1V RETURN RETURN RETURN RETURN +12V +12V PFD -12V NC +24V
J2
J3
BRN
BLU
GRN/YEL
AC_L
NC
AC_N
CHASSIS GND
NEUT
HOT
AC ENTRY BOARD
J2
J1
P GND +24V VSW VBAT
POWER IN
J2
+24V AC_OK +24V PWR_OK +24V NC NC NC *OVHEAT NC MOT_RPM +12V AC_VOLT NC *HTR_CUT +5V SSR_CTRL NC +5V P_GND NC P_GND NC P_GND A_GND
J6
RT_FLOW
RT_FLOW_RET
NC
J7
RED
BLK
BRN
HI_TEMP
A_GND
RT_AIR_B
NC
NC
J1
+5V +5V +5V AGND PGND DGND DGND +12V +12V NC -12V NC +12V
J10
EXTERNAL SERIAL PORT
DCD RXD TXD DTR GND DSR RTS CTS RI
J9
P GND +24V VSW VBAT
MAIN BOARD
BABY PROBE
J3
RT_SKIN
NC
A GND
PRB-SHLD
J4
A GND
RT_AIR_A
RT_MON
*HITEST
NC
NC
PRB-SHLD
AUX PROBE
J8
+5V SILENCE +5V ALARM +5V AUDIO +5V PWR_OK +5V *EN1 +5V *EN2 +5V *EN3 +5V *EN4 +5V *EN5 +5V *EN6 +12V MOSI_B DEFAULT SCLK_B VB A_LOAD_B VBAT A_DATA_B MUTE A_CLK_B VSW KYPD_B *HW_F R/W_B LED_TEST *FUTWR_B NC NC NC *DIS_B GND *BUSY GND *RESET GND B0 GND B1 GND B2 GND B3 GND B4 GND B5 GND B6 GND B7
J5
AUDIO VISUAL +12V MUTE AUDIO DGND DGND CONT_A CONT_B +5V AUX_DIG AUX_ANLG DGND NC NC NC
AUXILIARY PORT
J1
DISPLAY BOARD
J2
SILENCE COL_A VB COL_B KEY ROW_A ROW_B ROW_C ROW_D ROW_E ROW_F AUX-IN
J3
FRONT PANEL
B7 +5V B6 +5V B5 +5V B4 DGND B3 DGND B2 DGND B1 DGND B0 NC *FUTWR_B *DIS_B NC BUSY
VF DISPLAY
PARTS LIST
ITEM NO. | DWG SIZE | IDENT NO. | DESCRIPTION
C500 DIAGRAMS
REV.
A. PRELIM DRN 910-
10 DEC 90 JA
B. DRN 910-56 REV 5 REDRAWN JA 14 AUG 91
1. ISSUE DRN 910-98 NO CHG JA 7 JAN 92
2. ECN 9861: ZN C-4 DEL COLOR FROM WIRES AT J6 JA 23 MAR 92
3 ECN 9896: ZN D-4 CHG WIRE COLOR J2-1 WAS BRN, J2-3 WAS BLU JA 26 JUNE 92
UNLESS OTHERWISE SPECIFIED – DIMENSIONS ARE IN INCHES. TOLERANCES ON: FRACTIONS ± — DECIMALS .XX ± — .XXX ± — ANGLES ± — ALL SURFACE FINISH — √ MAX. DO NOT SCALE DRAWING
SIGNATURES DRAWN J Allison 7 DEC 90 CHKD ENG A. Ellis 8 JAN 91 APVD
NEXT ASSY:
MATERIAL
FINISH
Air-Shields 330 Jacksonville Road, Hatboro, PA 19040
INTERCONNECTION DIAGRAM C500/C550
SIZE D
7-3
SCALE —
SHEET 1 of 1

FIGURE 7.2 INTERCONNECTION DIAGRAM

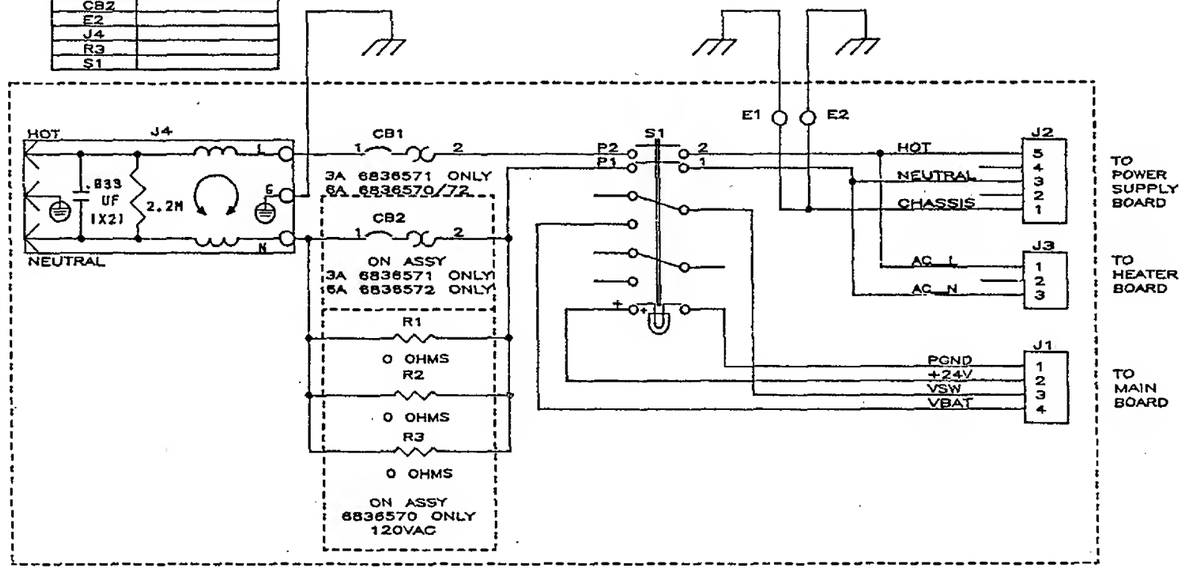
Change 1

PARTS LIST					
ITEM NO.	DWG. SIZE	IDENT. NO.	DESCRIPTION	QTY.	U/M

C500
DIAGRAMS

REVISIONS
F. PRELIM DRN 910-30
JA 3 MAY 91 / RJK 6 May 91
G. DRN 910-70 CB1 & 2 WERE 6A ON ASSY 71
JA 16 SEPT 91 / RJK 16 Sept 91
I. DRN 910-85, ISSUE E1 & E2 WENT TO SAME GND SYM.
JA 11 DEC 91 / RJK 17 Dec 91
2. ECN 10526: AT "CB1,2" ADD "72" ASSY.
JA 30 Aug 93 / RJK 31 Aug 93

LAST CMPNT USED	
USED	OMITTED
CB2	
E2	
J4	
R3	
S1	



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\REV1\6836515.SCH REVISION 2

FIGURE 7.3 SCHEMATIC DIAGRAM, AC ENTRY BOARD

Change 3

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NEXT ASSY:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES:
TOLERANCES ON:
FRACTIONS ± — DECIMALS .XX ± — .XXX ± — ANGLES ± —
ALL SURFACE FINISH — √ MAX.
DO NOT SCALE DRAWING
MATERIAL —

SIGNATURES	DATE
DRAWN J Allison	25 APR 91
CHKD	
ENG R. Kluwait	6 May 91
APVD	
FINISH —	

Air-Shields
330 Jacksonville Road, Hatboro, PA 19040

SCHEMATIC, AC ENTRY

SIZE B | 7-4 | SCALE — | SHEET 1 OF 1 | DIST TO

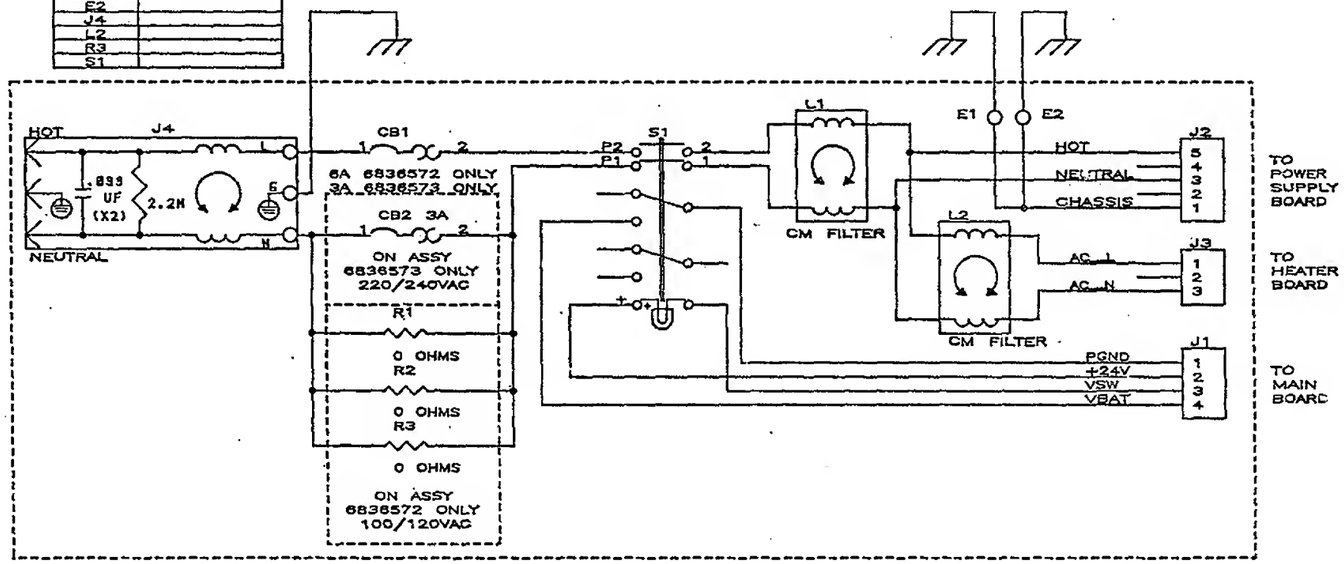
N43742

PARTS LIST					
ITEM NO.	DWG. SIZE	IDENT. NO.	DESCRIPTION	QTY.	U/M

REVISIONS
1. ISSUE ECN 10155 JA 14 OCT 92

C500
DIAGRAMS

LAST CMPNT USED	
USED	OMITTED
CB2	
F2	
J4	
L2	
R3	
S1	



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\REV1\6836516.SCH REVISION 1

FIGURE 7.3A SCHEMATIC DIAGRAM,

AC ENTRY BOARD, 230V, GERMAN

Change 1

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NEXT ASSY:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES:
TOLERANCES ON:
FRACTIONS ± DECIMALS .XX ± .XXX ± ANGLES ±
ALL SURFACE FINISH √ MAX.
DO NOT SCALE DRAWING
MATERIAL
FINISH

SIGNATURES	DATE
DRAWN allison	14 OCT 92
CHKD	
ENG Ron Klumb	23 Oct 92
APVD	

Air-Shields
330 Jacksonville Road, Hatboro, PA 19040

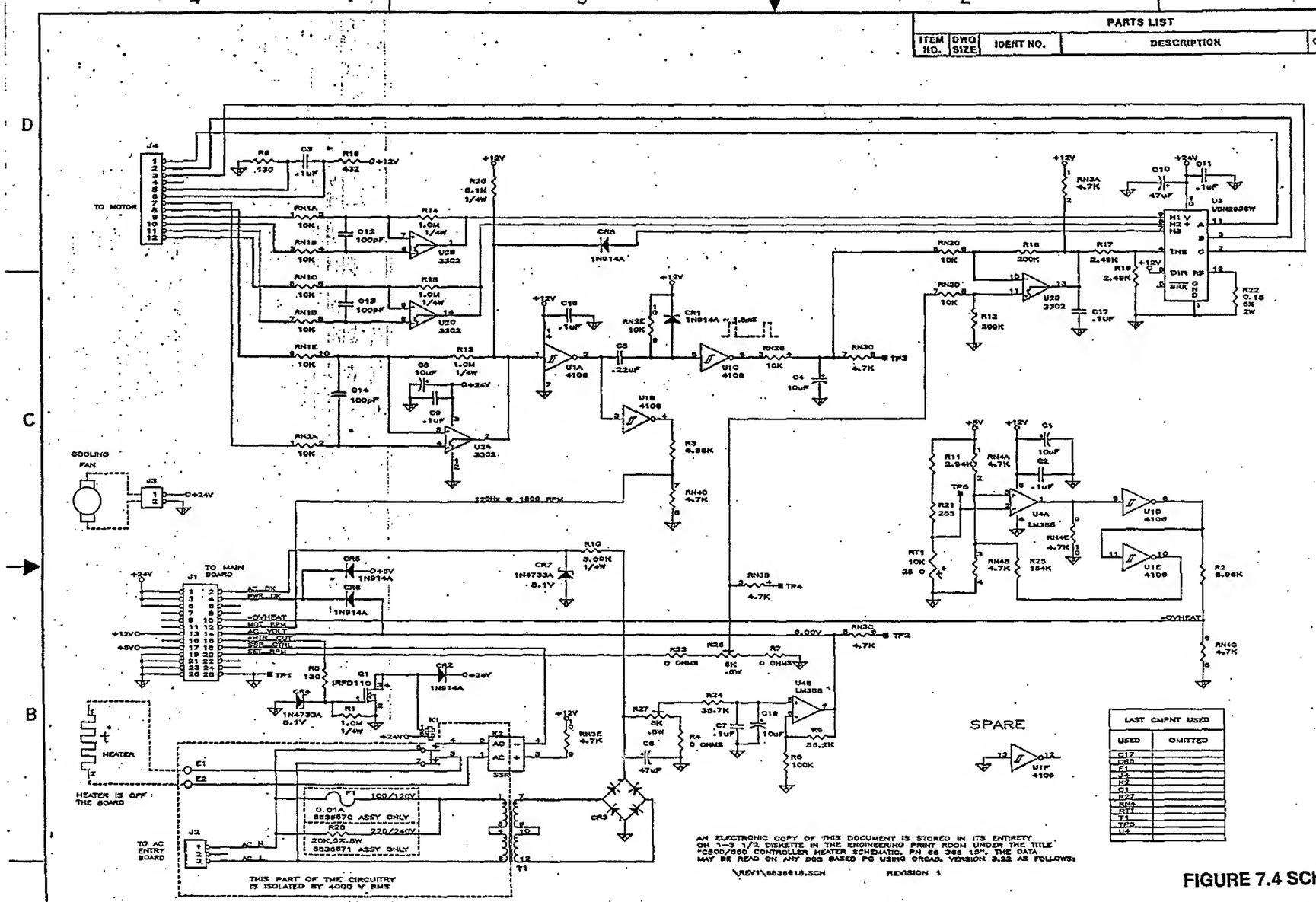
SCHEMATIC, AC ENTRY, (EMI)

SIZE B | 7-4A
SCALE NONE | SHEET 1 OF 1
DIST TO

N4374Z

PARTS LIST					
ITEM NO.	DWG SIZE	IDENT NO.	DESCRIPTION	QTY	U/M

REVISIONS
G PRELIM DRN 910-30
JA 8MAY91 — MK 7 MAY 91
H. DRN 910-50 U4 WAS MC1458; R4 WAS 768Ω; R23 WAS 13K; R24 WAS 5.1K; R26 WAS 2K
JA 26 JUN 91 — MK 10 JUL 91
J. DRN 910-85 RT WAS R24; R24 WAS RT DEL CB1 REPLACED BY F1; REWORK PER AMV 858
JA 11 DEC 91 — MK 18 DEC 91
1. ISSUE - DRN 910-98 NO CHG
JA 7 JAN 92 — MK 13 JAN 92
2. ECN 9887 ZN A-4 ADDED ASSY 68346 71; RES 828
JA TAPE 92 — MK 27 APR 92
3. ECN 9969. ZN A-4 CHG INPUT OF J2-3 WAS AC-N; J2-1 WAS AC-L
JA 30 JUNE 92 — MK 15 JUL 92



LAST CMPNT USED	
USED	OMITTED
C17	
CR8	
F1	
J4	
K2	
Q1	
R27	
RN4	
RT1	
T1	
TP2	
U4	

NOTES:

UNLESS OTHERWISE SPECIFIED:

1. ALL RESISTORS ARE IN OHMS, 1%, 1/8W.
2. ALL RESISTOR NETWORKS ARE IN OHMS
3. ALL CAPACITORS ARE IN MICROFARADS.

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NEXT ASSY:

UNLESS OTHERWISE SPECIFIED — DIMENSIONS ARE IN INCHES.
TOLERANCES ON:
FRACTIONS ± —
DECIMALS .XX ± —, .XXX ± —
ANGLES ± —
ALL SURFACE FINISH √ MAX.
DO NOT SCALE DRAWING
MATERIAL —

SIGNATURES		DATE
DRAWN	allison	2 APR 91
CHKD		
ENG	R. Zinnic	7 MAY 91
APVD		23 JUL 91
FINISH	—	

Air-Shields
330 Jacksonville Road, Hatboro, PA 19040

SCHEMATIC, HEATER BOARD

SIZE C — 7-5

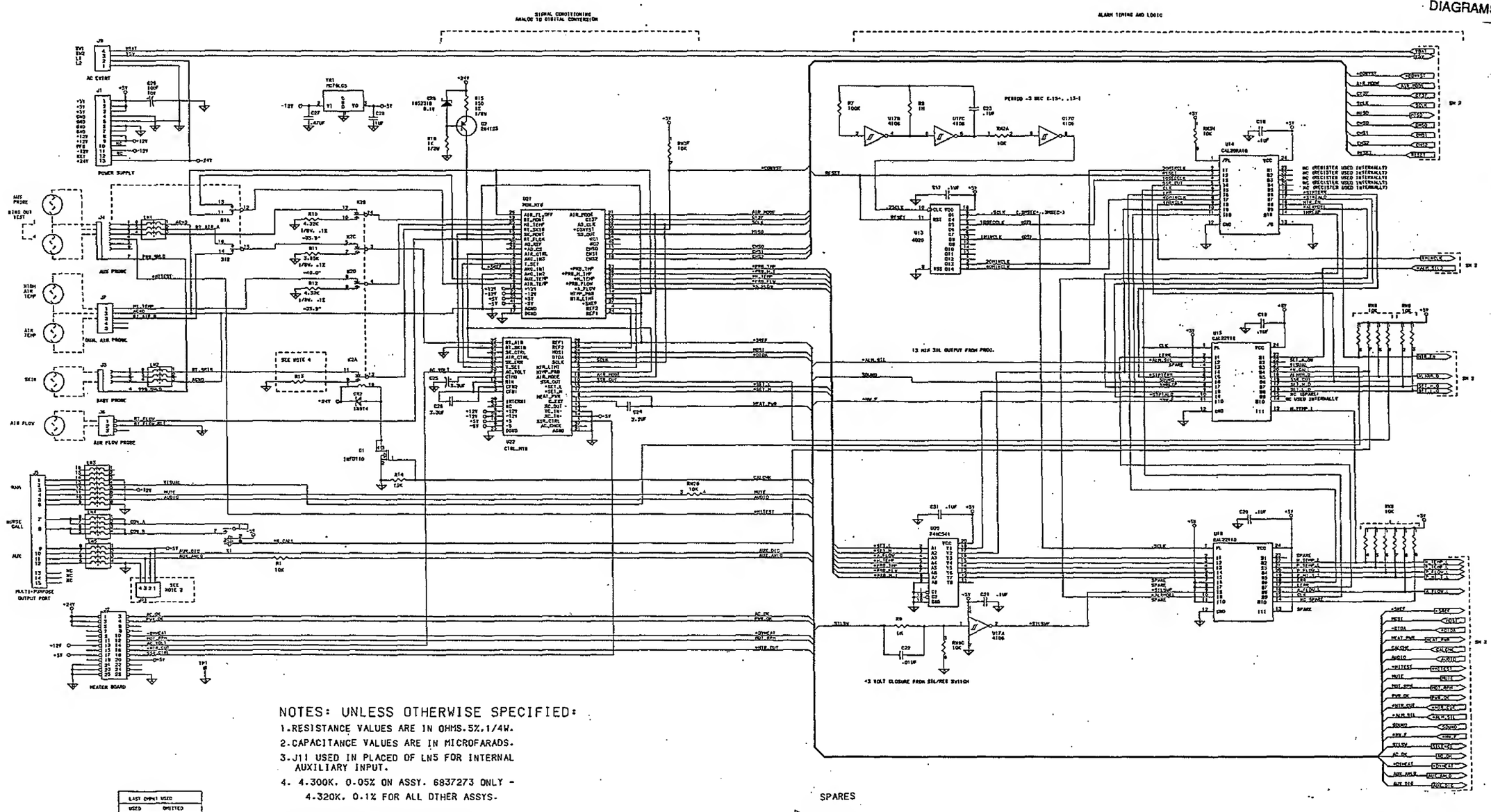
SCALE — SHEET 1 OF 1

DIST TO

FIGURE 7.4 SCHEMATIC DIAGRAM, HEATER BOARD

Change 1

REVISIONS
E. PRELIM DRN 910-30. JA 7MAY91 RSF 10MAY91
F. DRN 910-40; CHG PIN NO. ON J11-5 TO AGREE WITH ARTWORK JA 23JUN91 RSF 6JUNE91
G. DRN 910-56: ADD J11, NOTE 5 & U21-2 TO U21-28, DEL U21-2 TO U22-34; U21-2 WAS 5K_CTRL; REVISION LETTER KEY TO AGREE WITH ARTWORK; C25 WAS 330P JA 15JUL91 RSF 15JUL91
H. DRN 910-70 R11 WAS 4.32K JA 23SEP91 RSF 23SEP91
J. DRN 910-85, SPARES DEL. EN4G, EN4H & EN5H. ADD ENSH, ENSA & EN9B. R15 WAS 237Ω, PER AMV 859. JA 11NOV91 RSF 11NOV91
I. ISSUE DRN 910-98 ADD TP1, C29 VENT TO 'P' GND JA 8JAN92 RSF 10FEB92
2. ECN 10615 JA 8OCT92 RSF 8OCT92
3. ECN 10611 (A) E-4, 7, 11 ADDED NOTE 4. (C) ADDED "SEE NOTE 4" CALLOUT. RSF 12NOV93 12Nov93



NOTES: UNLESS OTHERWISE SPECIFIED:

1. RESISTANCE VALUES ARE IN OHMS. 5%, 1/4W.
2. CAPACITANCE VALUES ARE IN MICROFARADS.
3. J11 USED IN PLACED OF LN5 FOR INTERNAL AUXILIARY INPUT.
4. 4.300K, 0.05% ON ASSY. 6837273 ONLY - 4.320K, 0.1% FOR ALL OTHER ASSYS.

LAST CHPNT USED	
USED	OMITTED
C45	
C47	C1,2
J2	
L2	
L29	
R34	
R38	R1-3, 5
S1	
T1	
XU1	
XU2	
Y01	
Y1	

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\REV1\6837215.SCH REVISION 1
\REV2\6837215.SCH REVISION 2
\REV3\6837215.SCH REVISION 3

FIGURE 7.5 SCHEMATIC DIAGRAM, MAIN BOARD (SHEET 1 OF 2)

Change 3

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NEXT ASSY:

UNLESS OTHERWISE SPECIFIED — DIMENSIONS ARE IN INCHES. TOLERANCES ON: FRACTIONS ± —, DECIMALS .XX ± —, .XXX ± —, ANGLES ± —. ALL SURFACE FINISH — √ MAX. DO NOT SCALE DRAWING

MATERIAL

SIGNATURES		DATE
DRAWN	Allison	30 APR 91
CHKD		
ENG	R. Klein	10 APR 91
APVD		14 JUN 91

FINISH

Air-Shields
330 Jacksonville Road, Hatboro, PA 19040

SCHEMATIC
MAIN BOARD

SIZE D | 7-6

SCALE — | SHEET 1 of 2

DIST 710

PARTS LIST					
ITEM NO.	DWG SIZE	IDENT NO.	DESCRIPTION	QTY	U/M

REVISIONS
E. PRELIM DRN910-30 JA 30APR91
F DRN910-40; CHG PIN LOGIN LNG TO AGREE WITH ARTWORK. JA 3JUNE 91
G. DRN 910-52 A BUSY-WAS BUSY; B BUSY-B WAS BUSY-B JA 17 JUL 91
H. DRN 910-70 CHG NOTE AT U9 TO MOST USED ON THIS ASSY TO OPTIONAL! JA 12SEPT91
J. DRN 910-85 DEL RN5-9 FROM AC-OK, CHG 'D4' FROM RU9-2 TO RN4-8, 'D5' FROM RU9-3 TO RN4-9 DEL J10-4 FROM J10-B; J10-B FROM J10-6; JW-2 FROM J10-1, JW-1 TO J10-4 74HC137, ADD RN7H TO SIG #DTOAL, SIG 'DEL DSPL' DEL U1-23 ADD U5-14. 11 NOV 91 JA
1. ISSUE DRN910-98 SEE SHT JA 8 JAN 92
2. ECN 10155 ZND-3 ADDED GND TO J10. JA 1 OCT 92
3. ECN 10611 NO CHG THIS SHT. VV 12 Nov 93

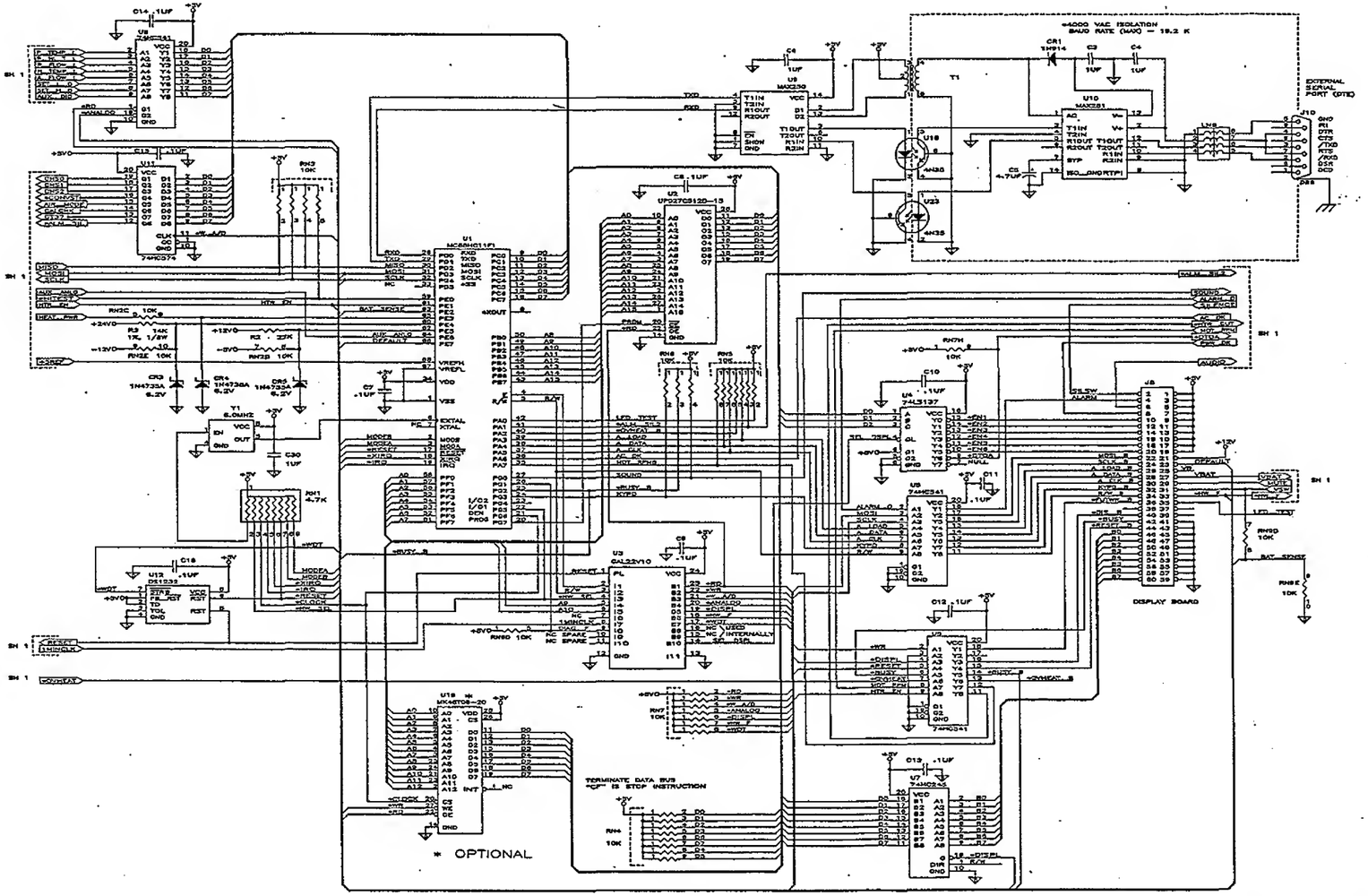

FIGURE 7.5 SCHEMATIC DIAGRAM, MAIN BOARD (SHEET 2 OF 2)

Change 3

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UNLESS OTHERWISE SPECIFIED — DIMENSIONS ARE IN INCHES. TOLERANCES ON: FRACTIONS ± DECIMALS .XX ± .XXX ± ANGLES ± ALL SURFACE FINISH √MAX. DO NOT SCALE DRAWING

NEXT ASSY:

MATERIAL

FINISH

SIGNATURES	DATE
DRAWN	30APR91
CHKD	
ENG	12 May 91
APVD	14 JUN 91

Air-Shields.
330 Jacksonville Road, Hatboro, PA 19040

SCHEMATIC MAIN BOARD

SIZE D | 7-7 | SHEET 2

SCALE 74

LAST CMPNT USED	
USED	OMITTED
BT1	
CR14	
C32	
DS28	
J3	
L31	
RH3	
R28	
TP27	
U19	

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SPARE

AIR TEMP

BABY TEMP

HEATER POWER

ALARM

>37 C

LOCK

AIR AND BABY CONTROL TEMP

DEGREE C/F

BABY MODE

AIR MODE

TIME

FUTABA DISPLAY

VOLUME CONTROL

TONE CONTROL

SYSTEM FAIL

POWER FAIL

NOTES:

UNLESS OTHERWISE SPECIFIED

1. ALL COMPONENTS ARE SURFACE MOUNTED EXCEPT BT1,DS1-27,J2-9,L31
2. ALL RESISTOR VALUES ARE IN OHMS.
3. CAPACITORS VALUES ARE IN MICROFARADS.
4. ✱ ON ASSEMBLY 88 371 70 ONLY.

COMPONENTS NOT USED ON THIS ASSEMBLY

FIGURE 7.6 SCHEMATIC DIAGRAM, DISPLAY BOARD

Change 1

PARTS LIST				C500 DIAGRAMS
ITEM NO.	DWG SIZE	IDENT NO.	DESCRIPTION	

REVISIONS
H. DRN 910-33 PRELIM 16 MAY 91 JA 23 May 91
I. DRN 910-56 U3 FU4 CHG PIN 29 TO 31 FROM T1A-T1C TO T1C-T1H, BUSY WAS 5V R34 WERE 11K 3 AUG 91 JA 16 Aug 91
J. DRN 910-70, ZD1 & ZD2 R25 WAS 2.2K, R26 WAS 330K, C37 WAS 4.7UF, U17 E END WERE SPARES. 20 Sept 91 JA 19 Sept 91
1. ECN 9710 DR 1991-110 R1, 2, 5, 6 WAS 10K, R3, 4 WAS 34.5K, R7 WAS 562K, R8 WAS 10K, R9 WAS 24K, R11 WAS 332K, R14 WAS 100K, R15, 16 WAS 412K, R17, 18, 19, 26 WAS 61.9K, R18 WAS 2.2K, R25 WAS 5M, R27 WAS 2.32K, R29, 31 WAS 5K, R28 WAS 1M, R24 WAS 10HM JA 17 JUNE 92
2. ECN 9791 R19 WAS 332K JA 18 SEP 91
3 ECN 9969 ZN C-2 ADDED R TO DS23 JA 26 JUNE 92

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NEXT ASSY:	MATERIAL	DRAWN alloon	7 MAY 91
		CHKD	
		ENG P Klein	23 May 91
		APVD	13 JUN 91
		FINISH	

Air-Shields
330 Jacksonville Road, Hatboro, PA 19040

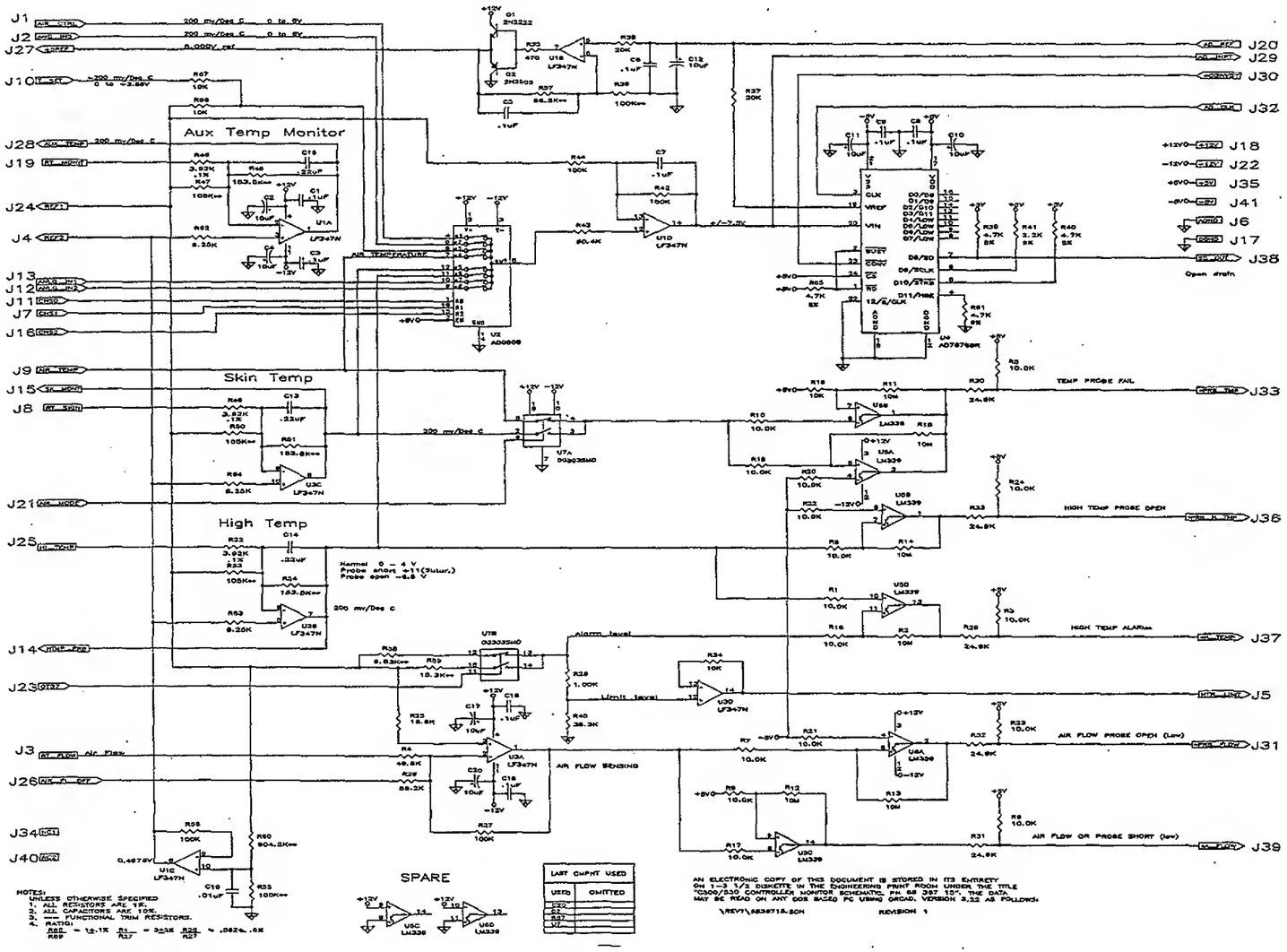
SCHEMATIC, DISPLAY BOARD

SIZE D | 7-8

SCALE | SHEET 1 OF 1

PARTS LIST					
ITEM NO.	DWG SIZE	IDENT NO.	DESCRIPTION	QTY	U/M

REVISIONS
E. PRELIM DEN 910-30
JMAY91 10 May 91
R DRN910-54: PIN 12 WAS SK_CTRL
17 JUL 91
1. ISSUE DRN910-98 NOCHG
2 Mar 92


Aux Temp Monitor
Skin Temp
High Temp
SPARE
AIR FLOW SENSING
TEMP PROBE FAIL
HIGH TEMP PROBE OPEN
HIGH TEMP ALARM
AIR FLOW PROBE OPEN (Low)
AIR FLOW OR PROBE SHORT (low)
Open drain
J1 J2 J27 J10 J28 J19 J24 J4 J13 J12 J11 J7 J16 J9 J15 J8 J21 J25 J14 J23 J3 J26 J34 J40
J20 J29 J30 J32 J18 J22 J35 J41 J6 J17 J38 J33 J36 J37 J5 J31 J39
NOTES:
UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS ARE 1%.
2. ALL CAPACITORS ARE 10%.
3. ---- FUNCTIONAL TRIM RESISTORS.
4. RATIO:
LAST CHPNT USED
OMITTED
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\REV1\8839710.SCH
REVISION 1

FIGURE 7.7 SCHEMATIC DIAGRAM, MONITOR HYBRID

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NEXT ASSY:

UNLESS OTHERWISE SPECIFIED — DIMENSIONS ARE IN INCHES.
TOLERANCES ON:
FRACTIONS ± —— DECIMALS .XX ± —— .XXX ± —— ANGLES ± ——
ALL SURFACE FINISH —— √MAX.
DO NOT SCALE DRAWING
MATERIAL —

SIGNATURES	DATE
DRAWN Allen	24 APR 91
CHK'D	
ENG	10 May 91
APVD	
FINISH —	

Air-Shields
330 Jacksonville Road, Hatboro, PA 19040

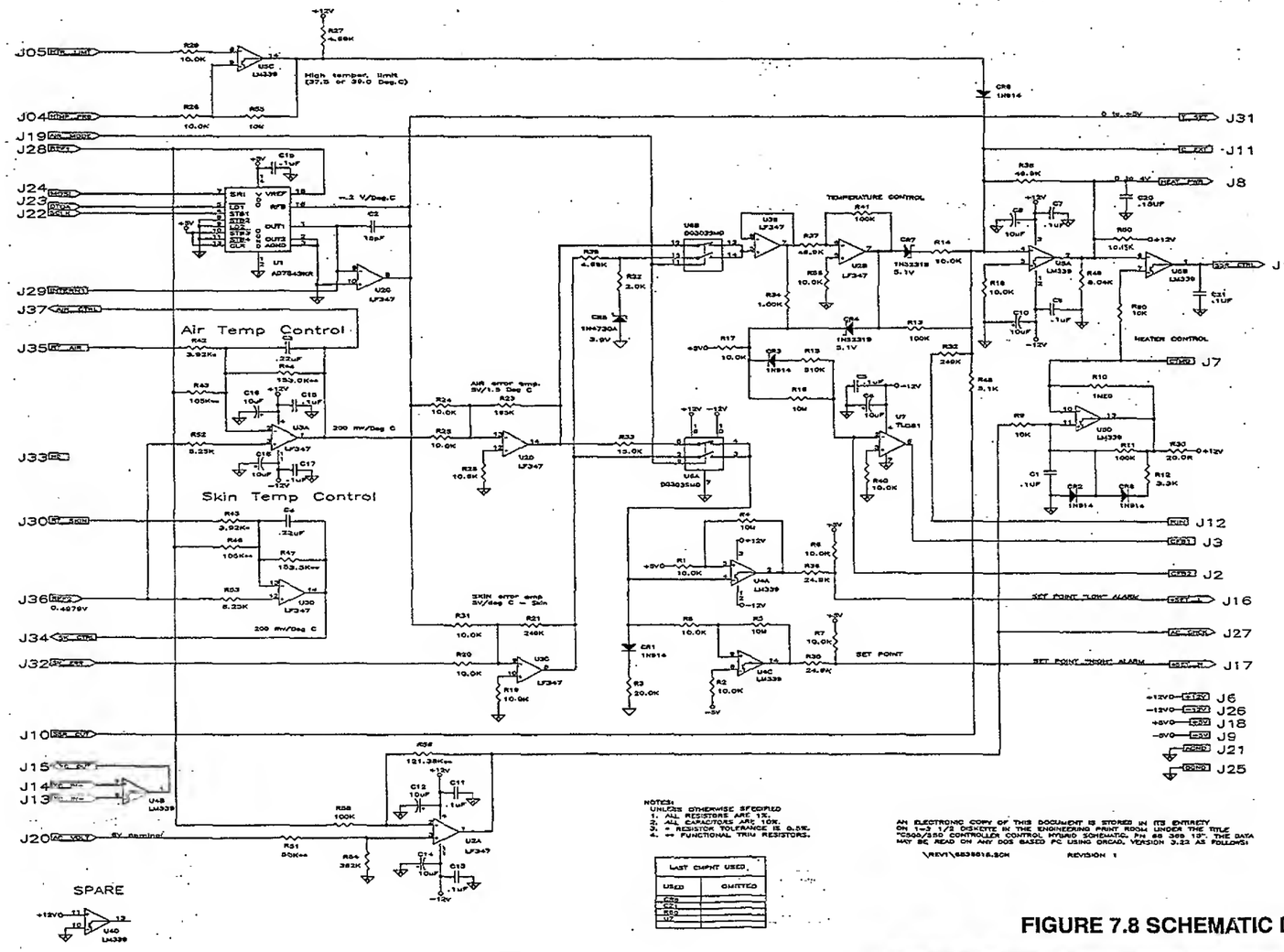
SCHEMATIC, MONITOR HYBRID

SIZE D | 7-9
SCALE — | SHEET 1 OF 1

PARTS LIST					
ITEM NO.	DWG SIZE	IDENT NO.	DESCRIPTION	QTY	U/M

REVISIONS
E. PRELIM DRN 910-30
JA 7MAY91
1. ISSUE. DRN 910-98 250 WAS 10.0K
JA 8JAN92 MDK 10 JAN 92

C500
DIAGRAMS



NOTES:
UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS ARE 1%.
2. ALL CAPACITORS ARE 10%.
3. ▪ RESISTOR TOLERANCE IS 0.5%.
4. ** FUNCTIONAL TRIM RESISTORS.

LAST CMPNT USED	
USED	OMITTED
C29	
C21	
R50	
U7	

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\REV1\5539016.SCH REVISION 1

FIGURE 7.8 SCHEMATIC DIAGRAM, CONTROL HYBRID

THIS DOCUMENT IS PROPRIETARY INFORMATION. REPAIRS AND MODIFICATIONS SHOULD BE PERFORMED ONLY BY AUTHORIZED SERVICE PERSONNEL TO MAINTAIN YOUR WARRANTY AND TO AVOID CREATING SAFETY HAZARDS. WE CAN NOT ASSUME RESPONSIBILITY FOR ANY CONDITIONS AFFECTING THE PROPER OPERATION OF THIS EQUIPMENT WHICH MAY RESULT FROM UNAUTHORIZED REPAIR OR MODIFICATION.

NEXT ASSY:

UNLESS OTHERWISE SPECIFIED — DIMENSIONS ARE IN INCHES.
TOLERANCES ON:
FRACTIONS ± — DECIMALS .XX ± — .XXX ± — ANGLES ± —
ALL SURFACE FINISH — √MAX.
DO NOT SCALE DRAWING
MATERIAL —

SIGNATURES		DATE
DRAWN	allison	25 APR 91
CHKD		
ENG	P. J. Davis	10 May 91
APVD		

FINISH —

Air-Shields
330 Jacksonville Road, Harboro, PA 19040

SCHEMATIC, CONTROL HYBRID

SIZE D | 7-10
SCALE — | SHEET 1 OF 1

LIMITED WARRANTY

The product being described in this manual is warranted against defects in materials or workmanship for one year from the date of shipment from Hill-Rom Air-Shields, Inc., Hatboro, with the following exceptions:

All consumable and disposable products are guaranteed to be free from defects upon shipment only.

Calibrations are considered normal maintenance and are not included in the 1 year warranty.*

During the warranty period any defective parts other than those listed above will be replaced at no charge to the customer. There will be no labor charge for replacing the parts within the continental U.S.

This warranty is rendered void and Hill-Rom Air-Shields, Inc. cannot be held liable for conditions resultant therefrom if:

1. Damage to the unit is incurred as a result of mishandling.
2. The customer fails to maintain the unit in a proper manner.
3. The customer uses any parts, accessories, or fittings not specified or sold by Hill-Rom Air-Shields, Inc.
4. Sale or service is performed by a non-certified service/dealer agency.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS OF PURPOSE. HILL-ROM AIR-SHIELDS' OBLIGATION UNDER THESE WARRANTIES SHALL NOT INCLUDE ANY LIABILITY FOR LOSS OF PROFITS, DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES OR DELAYS. Some states, provinces, or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply. Any improper or negligent use, any alterations or repairs not in accordance with Hill-Rom Air-Shields' manuals or performed by others in such manner as in Hill-Rom Air-Shields' sole judgement affects the product materially and adversely, shall void these warranties. These warranties do not cover failures due to misuse, abuse, neglect, or lack of routine maintenance. No employee or representative of Hill-Rom Air-Shields is authorized to change these warranties in any way or grant any other warranty unless in writing and signed by a Hill-Rom officer. These warranties provide specific legal rights; but, there may be other available rights; which vary from state to state, province to province, or country to country.

*The Accreditation Manual for Hospitals requires each piece of equipment to be tested prior to initial use and at least annually thereafter. To comply with this standard, we recommend that you participate in our Preventive Maintenance Program during the warranty period. This service can be performed by certified technicians through our Product Service Group and authorized dealers.

SERVICE

For optimal performance, product service should be performed only by qualified service personnel. Technical Services representatives are located throughout the United States and Canada and are dispatched for required maintenance by calling USA (800) 445-3720 and Canada (800) 267-2337. Customers outside the U.S. and Canada should contact their local factory-authorized Hill-Rom Air-Shields' distributor for service.

Hill-Rom Air-Shields®
A HILLENBRAND INDUSTRY
330 Jacksonville Road, Hatboro, PA 19040

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E 1 2 3 4 5 6 7 8 9
A 1 2 3 4 5 6 7 8 9

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